

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

12/21/01



Applicant(s): Timothy E. BENSON et al.  
 Pocket No.: 00403.CN1

*Box Sequence  
CD rom*

**CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED  
 HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE**

jc564 U.S. PTO  
 10/028224  
 12/21/01

Assistant Commissioner for Patents  
**ATTN: Box Patent Application**  
 Washington, D.C. 20231

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ Utility Patent Application: Specification (51 pgs); Claims (78 claims on 17 pgs); 1 pg Abstract.
- ☒ Application Data Sheet: 3 pgs.
- ☒ 6 Sheets of formal drawings.
- ☐ A signed Declaration and Power of Attorney ( pgs).
- ☒ A return postcard.
- ☐ An Assignment of the invention to \_\_\_ and Recordation Form Cover Sheet ( \_ pgs. total.).
- ☐ A check in the amount of \$40.00 to cover the Assignment Recording Fee.
- ☒ Computer readable form of "Sequence Listing." Applicants state that the paper copy form (included herewith) (4 pgs.) of the "Sequence Listing" section of the present application, and the computer readable form submitted herewith, are the same.
- ☒ Other: Request for Filing a Continuation Application Under Rule §1.53(b) 3 pgs.; Preliminary Amendment - including Appendix A (3 pgs.); Communication (1 pg.); 2 - Compact Disc Transmittal Under 37 C.F.R. §1.52(e) (2 pgs. total); compact discs (2 discs total); Nonpublication Request Under 35 U.S.C 122(b)(2)(B)(i) - (1 pg); .
- ☒ A check in the amount of \$ 4,554.00 to cover the filing fee, which is calculated below:

APPLICATION FILING FEE					
	Number of Claims Filed (1)	Claims Included in Basic Filing Fee (2)	Number of Extra Claims (1-2)	Cost per Extra Claim	Fee Required
Total Claims	95	20 =	75	x \$18 =	\$1,350.00
Independent Claims	29	3 =	26	x \$84 =	\$2,184.00
One or More Multiple Dependent Claims Presented? If Yes, Enter \$280 Here →					\$280.00
Enter Basic Filing Fee (Utility Patent-\$740) Here →					\$740.00
<b>Total Application Filing Fee</b>					<b>\$4,554.00</b>

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

MUETING, RAASCH & GEBHARDT, P.A.  
 Customer Number: 26813

By: *Loren D. Albin*  
 Name: Loren D. Albin  
 Reg. No.: 37,763  
 Direct Dial: 612-305-1225  
 Facsimile: 612-305-1228

AMM/sh

**CERTIFICATE UNDER 37 CFR §1.10:**

"Express Mail" mailing label number: EL 888273578 US

Date of Deposit: December 21, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, **ATTN: Box Patent Application**, Washington, D.C. 20231.

By: *Sam Her*  
 Printed Name: SAM HER

(LARGE ENTITY TRANSMITTAL UNDER RULE 1.10)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket Number	Anticipated Classification		Prior Application	
00403.CN1	Class	Subclass	Examiner Unknown	Art Unit

**REQUEST FOR FILING A CONTINUATION APPLICATION  
UNDER RULE §1.53(b)**

Assistant Commissioner for Patents  
Attn: Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:

This is a request for filing a continuation application under 37 CFR §1.53(b) of Serial No. 09/808,310, filed on March 14, 2001, entitled CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE by the following inventor(s) (name, address, and citizenship):

- |    |  |    |  |    |   |
|----|--|----|--|----|---|
| 1. | Timothy E. BENSON<br>2690 Timberleaf Lane<br>Kalamazoo, MI 49006<br>Citizenship: USA | 2. | Jim D. DURBIN<br>4822 Idlewood Ave.<br>Portage, MI 49024<br>Citizenship: USA | 3. | D. Bryan PRINCE<br>412 North Riverview Dr.<br>Parchment, MI 49004<br>Citizenship: USA |
|----|--|----|--|----|---|

1. ☐ Enclosed is a copy of the specification (including claims, abstract, and drawings) as filed in the prior application.
2. ☒ Enclosed is a new specification (including claims and abstract). The entire disclosure of the prior application is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference.
3. ☐ Enclosed is a copy of the Declaration and Power of Attorney filed in the prior application.
4. ☐ Enclosed is a newly executed Declaration and Power of Attorney.
5. ☒ Enclosed are drawings (6 sheets).
6. ☐ Cancel in this application claims      before calculating the filing fee. (At least one independent claim must be retained for filing purposes.)
7. ☒ A preliminary amendment is enclosed.

Filed: December 21, 2001

Title: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE

8. X The filing fee is calculated below:

CLAIMS AS FILED			
NUMBER FILED	NUMBER EXTRA	RATE	BASIC FEE \$740/\$370
Total Claims 95-20 =	75	\$18/\$9	\$1,350
Independent Claims 29-3 =	26	\$84/\$42	\$2,184
MULTIPLE DEPENDENT CLAIM PRESENTED		\$280/\$140	\$280
FILING FEE:			\$4,554

9. X A check in the amount of \$ 4,554 is attached.
10. X The Commissioner is hereby authorized to charge any additional fees as set forth in 37 CFR §1.16 to 1.18 which may be required by this paper or credit any overpayment to Account No. 13-4895.
11.    This application is being filed by less than all of the inventors named in the prior application. Please delete the names of the following inventor(s) who are not inventors of the invention claimed in the present application:
12. X Amend the specification by inserting as the first sentence on page 1, the following: -- This is a continuation of application Serial No. 09/808,310, filed March 14, 2001, (pending), which is a continuation-in-part of U.S. Application Serial No. 09/747,421, filed December 23, 2000, both of which are incorporated herein by reference.--
13.    Priority of foreign application Serial No.   , filed on    in (country)    is claimed under 35 U.S.C. §119.
14.    The prior application is assigned of record to
15. X The Power of Attorney in the prior application is to:

**Ann M. Mueting**  
 Mueting, Raasch & Gebhardt, P.A.  
 P.O. Box 581415  
 Minneapolis, MN 55458-1415  
**Customer Number 26813**

Filed: December 21, 2001

Title: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE

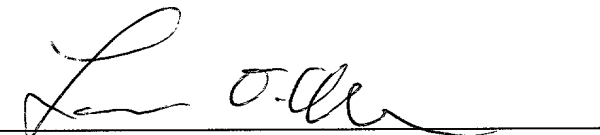
**Address all future communications to:**

MUETING, RAASCH & GEBHARDT, P.A.  
P.O. Box 581415  
Minneapolis, Minnesota 55458-1415  
**Customer Number 26813**

Attn: Ann M. Mueeting  
(Telephone: 612-305-1220)  
(Facsimile: 612-305-1228)

Date:

December 21, 2001



Loren D. Albin  
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"Express Mail" mailing label number EL888273578US

Date of Deposit December 21, 2001.

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Name:

Sam Her

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Timothy E. Benson et al.	)	Group Art Unit:	Unassigned
		)		
Serial No.:	Unassigned	)	Examiner:	Unassigned
		)		
Filed:	Herewith	)		
		)		
For:	CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE			

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COMPACT DISC TRANSMITTAL UNDER 37 C.F.R. § 1.52(e)

Duplicate compact discs (Copy 1 and Copy 2) are being submitted with the above U.S. Patent Application herewith. The material contained on Copy 1 is believed to be identical to the material contained on Copy 2. The compact discs are Compact Disc-Recordable (CD-R) as specified under 37 C.F.R. § 1.52(e)(2). The compact discs are formatted for IBM compatible machines operating under an MS-Windows environment.

**COMPACT DISC TRANSMITTAL UNDER 37 C.F.R. § 1.52(e)**

Page 2 of 2

Applicant(s): Timothy E. Benson et al.

Serial No.: Unassigned

Filed: Herewith

For: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE

Each disc contains the following files:

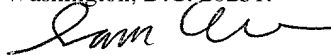
<u>Name</u>	<u>Size</u>	<u>Contents</u>	<u>Date of File Creation</u>
table_1.txt	241 KB	Table 1	February 15, 2001
table_2.txt	849 KB	Table 2	February 15, 2001
table_3.txt	235 KB	Table 3	February 15, 2001
table_4.txt	774 KB	Table 4	February 15, 2001

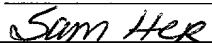
**CERTIFICATE UNDER 37 C.F.R. 1.10:**

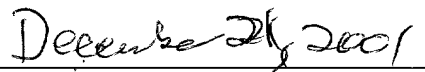
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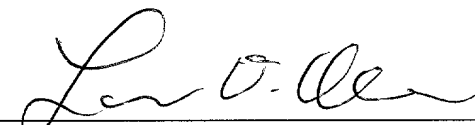




Date

Respectfully submitted,  
Timothy E. Benson et al.  
By their Representatives,  
Mueting, Raasch & Gebhardt, P.A.  
P.O. Box 581415  
Minneapolis, MN 55458-1415  
Phone: (612)305-1220  
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**Customer Number 26813**

By:



Loren D. Albin  
Reg. No. 37,763  
Direct Dial (612)305-1225

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)</b>	First Named Inventor		Timothy E. BENSON
	Title	Crystallization and Structure Determination of Glycosylated Human Beta Secretase in Alzheimer's Disease	
	Atty Docket Number		00403.CN1

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

December 21, 2001

Date

Loren D. Albin

Signature

Loren D. Albin

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

**Burden Hour Statement** This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**